

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/520,180	01/05/2005	Hisao Nishikawa	029650-162	7679	
7590 11/28/2005			EXAM	EXAMINER	
Burns Doane			BOUCHELLE, LAURA A		
Swecker & Mat	his				
PO Box 1404			ART UNIT	PAPER NUMBER	
Alexandria, VA 22313-1404			3763		

DATE MAILED: 11/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		(
	Application No.	Applicant(s)				
	10/520,180	NISHIKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Laura A. Bouchelle	3763				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may be earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. EANDONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 05	5 January 2005.					
2a) ☐ This action is FINAL . 2b) ☑ T	<u> </u>					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex par</i> te Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10)⊠ The drawing(s) filed on <u>05 January 2005</u> is/a	are: a) $igtimes$ accepted or b) $igsqcup$ o	bjected to by the Examiner.				
Applicant may not request that any objection to t	*					
Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreing a) All b) Some * c) None of: 1. Certified copies of the priority document 		§ 119(a)-(d) or (f).				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the p		received in this National Stage				
application from the International Bur * See the attached detailed Office action for a	• • • • • • • • • • • • • • • • • • • •	received				
See the attached detailed Office action for a f	ist of the certified copies hot	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 15105, 4/19105, 5/17/05 Paper No(s)/Mail Date 15105, 4/19105, 5/17/05 Paper No(s)/Mail Date 15105, 4/19105, 5/17/05						

Application/Control Number: 10/520,180 Page 2

Art Unit: 3763

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Maruyama

(JO 09-276403). Maruyama discloses a needle 1 comprising a puncture point 4; a proximal end

12 having greater outside and inside diameters than the puncture section; and a tapered section T

providing puncture resistance smaller than the puncture section, wherein the tapered section has

tapered inner and outer profiles. See Figs. 4, 5, 6.

3. Claims 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Gross

(4781691). Gross discloses a stepped needle comprising a liquid container 40 capable of holding

liquid therein; an injection needle 10 having a puncture section 20 capable of piercing a living

body; a proximal end section 14 having outside and inside diameters greater than said puncture

section; a tapered section 18 providing puncture resistance smaller than the puncture section; a

base body 12 supporting the needle, wherein the tapered section and the puncture section

protrude from the base body. See Figs. 2 and 6. Gross further discloses that the injection needle

Application/Control Number: 10/520,180 Page 3

Art Unit: 3763

has a liquid introducing needle section that can communicate with the liquid container. See Fig.

2.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama in view

of Melker (US 5242410). Claim 2 differs from Maruyama in calling for the tapered section to

have an outer profile with an angle ranging from 0.5 to 2 degrees. Melker teaches a needle 1

with a taper from the distal end 5 to the transition point 6 having an angle in the range from

about 1.26 degrees to about 5.18 degrees. This taper provides a suitable degree of gentle entry

into a vessel, while permitting the introducer to be of reasonable length (Col. 4, lines 27-35).

See Fig. 1. Therefore, it would have been obvious to one of ordinary skill in the art at the time of

invention to modify the device of Maruyama to have a taper of about 1.26 degrees as taught by

Melker to provide a suitable degree of gentle entry into a vessel while permitting the introducer

to be of reasonable length.

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gross in view of

Melker. Claim 6 differs from Gross in calling for the tapered section to have an outer profile with

Application/Control Number: 10/520,180 Page 4

Art Unit: 3763

an angle ranging from 0.5 to 2 degrees. Melker teaches a needle 1 with a taper from the distal

end 5 to the transition point 6 having an angle in the range from about 1.26 degrees to about 5.18

degrees. This taper provides a suitable degree of gentle entry into a vessel, while permitting the

introducer to be of reasonable length (Col. 4, lines 27-35). See Fig. 1. Therefore, it would have

been obvious to one of ordinary skill in the art at the time of invention to modify the device of

Gross to have a taper of about 1.26 degrees as taught by Melker to provide a suitable degree of

gentle entry into a vessel while permitting the introducer to be of reasonable length.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Laura A. Bouchelle whose telephone number is 571-272-2125.

The examiner can normally be reached on Monday-Friday 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nicholas Lucchesi can be reached on 517-272-4977. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura A Bouchelle

Examiner Art Unit 3763

LAB

NICHOLAS D. LUCCHESI SUPELIASORY PATENT EXAMINER YEUMLOLOGY CENTER 3700